GPS Director
GD-101 User Manual

Version 1.1

CONTENT

Chapter 1_Functions and Specifications

Functions and Features:

- Up to 5 Destination Points
- Display directions with Digital Arrow (Can display 16 directions)
- Magnetic North Direction Indication
- Manual Destination Coordinate Settings
- Maximum Destination Distance Showing (0~999.99)
- GPS Fix Status Indication
- 3 Kinds of Distance Units: km/mi/nm
- Time Zone Setting/ Date
- Uses (2) AAA Batteries
- Battery Life Can Last Up To 18 Hours In Ideal Conditions. Battery life can be Lengthened Using Power-Save Mode.
- Illuminated Screen

Specifications

Power	
GPS chipset	High sensitivity single chip solution
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	48 channel all-in-view tracking
Sensitivity	Tracking:-161dBm
Display	
Pixel H*W	96x65 dot Matrix
Backlight Type	White
Electricity	
Battery Type	AAA X 2
Operation Time	9 hours
Buttons	
Power/Backlight Button	**Short-click**: Turn on backlight. **Long-click:** 1. Power off device under main screen. 2. Return to last page under each setting screen.
Selection/ Setting Button	**Short-click**: To select. **Long-click**: To set. Make GD-101 enter main screen by long clicking Power/Backlight Button and Selection/ Setting Button at the same time.
Appearance	
Dimension	60 X 60 X 28 (mm)
Weight	45g, (Not including batteries)
COORDINATES SYSTEM	
Coordinates System	Default_WGS-84
DYNAMIC CONDITION	
Accelerate Speed	Less than 4G
Height Limit	18,000 Meter
Speed Limit	515 m/sec
Vibration Limit	20 m/sec**3
GPS FIX TIME	
Hot Start	Average 1 second
Warm Start	Average 38 second
Cold Start	Average 42 second
Get GPS fix Again	Average 0.1 second
Antenna	
GPS antenna	12 X 12 mm, Patch Antenna

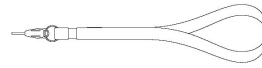| ACCURACY	
Horizontal Position	10 meters, 2D RMS 1-5 meters 2D RMS, WAAS corrected
Speed Accuracy	0.1 m/sec
Time Accuracy	1 micro-second synchronized to GPS time
Temperature	
Operation Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Humidity Range	Operational up to 95% non-condensing
Certification	
FCC	USA (Covers requirements for CANADA ICES-003)
CE	Europe
TAIWAN	BSMI

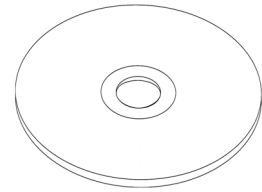# Accessories
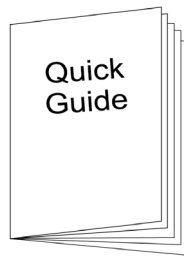
GD-101Main Unit   Quick Start Guide   Lanyard   CD

NOTE_
If any accessory is not included or damaged, please contact your local dealer.

Appearance

Front view and Back view		
1	Display	Shows the GPS fix status, power level, heading and distance
2	Battery Cover	Open the battery cover by rotating it according to the arrow (counter clock-wise to open/ clock-wise to close).
3	Power/ Illumination Button	**Press**: Turn on backlight. **Hold (2sec):** 1. Turns the device off. 2. Returns to the last page under each setting screen.
4	Selection/ Setting Button	**Press**: To select. **Hold (2sec)**: To set. By holding The Power/Illumination Button and the Selection/ Setting Button at the same time the GD-101 will enter the main settings screen.

Chapter 2
Using The Device For The First Time

Battery Installation

Opening the battery cover:

With the GD-101 face down, holding the GD-101 with both hands turn the back cover counter clock-wise till the cover can no longer turn.

Closing the battery cover:

With the GD-101 face down, holding the GD-101 with both hands turn the back cover clock-wise till the cover can no longer turn.

Magnetic North Adjustment

1. When using the GD-101 for the first time, the GD-101 will automatically perform the magnetic-north adjustment as seen in the screenshot to the left.
2. To make adjustments, please refer to Chapter 3-2.
3. If the GD-101 shows an incorrect or inaccurate heading, please perform the magnetic North adjustment.
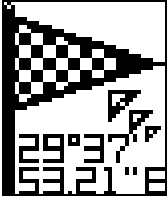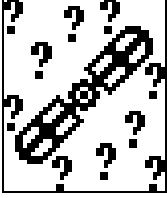
Chapter 3 Using The GD-101

3-1 The E-Compass Screen

Indication	Description
	The GPS fix indication icon (⬚) will stay SOLID when the GD-101 gets a GPS fix. The GPS fix icon (⬚) will FLASH when the GD-101 does not have a GPS fix.
	The distance between the GD-101 and your destination will only be shown/ displayed when the GD-101 has a GPS fix.
	The E-Compass screen will began to direct you to your destination after the GD-101 has a GPS fix and has performed the magnetic-north adjustment.
	Battery power level: ▭ 75%~100% ▭ 50%~75% ▭ 25%~50% ▭ Battery Is Low, Please Change/ Charge Your Batteries

3-1-1 Setting the Destination

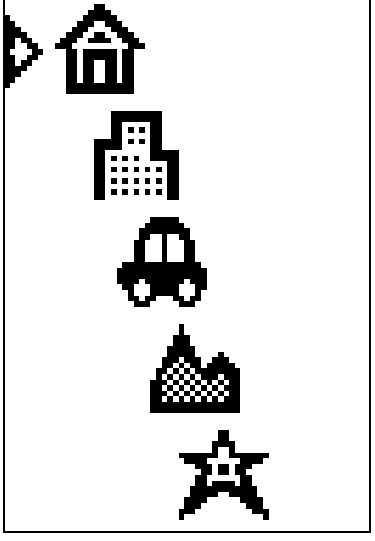|	Description
	1. While in the E-Compass mode, press the Selection/Setting button to select and set the following 5 destination coordinates. 2. After the GD-101 has a GPS fix, hold the Selection/ Setting button to save your present coordinates as the selected destination's coordinates.
	While The GD-101 is saving your coordinates, the GD-101 will display the graphic shown to the left and then return to E-Compass mode.
	If you try to save your present coordinates with no GPS fix, the GD-101 will display a graphic similar to the image seen in the screenshot to the left and then return to E-Compass mode.

3-2 Main Setting Screen

While in E-Compass mode, you can make the GD-101 enter the main screen by holding the Power/Illumination Button and the Selection/ Setting Button at the same time.
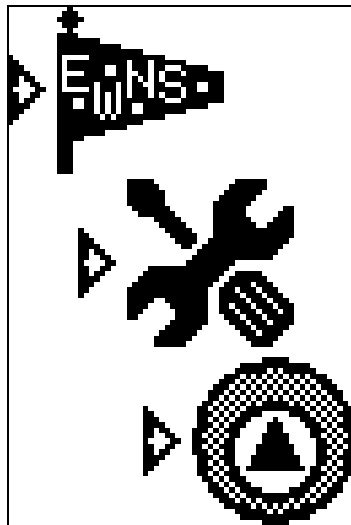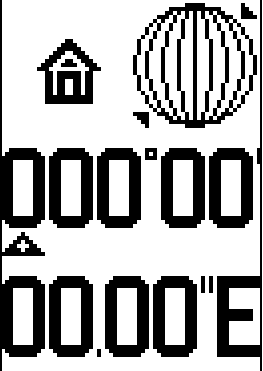
Screen and Operation Explanation:

| Indication	Function	Operation
	Manually Set Destination Coordinates	**Hold** the Selection/Setting button to enter the setting screen.
		You could set the following 5 destination coordinates.
	Function Settings	**Hold** the Selection/Setting button to enter the setting screen.
		You could set the following items. Time Zone Distance Unit Illumination Setting Automatic Sleep Time
	Data Setting	**Hold** the Selection/Setting button to enter setting screen.
		You could set the following items. Date GPS Cold Start Delete Memory

3-2-1 Manually Setting Your Destination's Coordinates

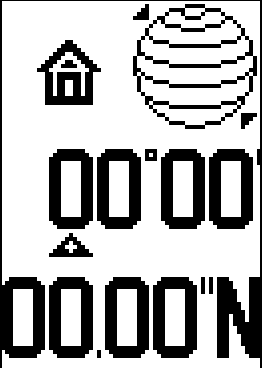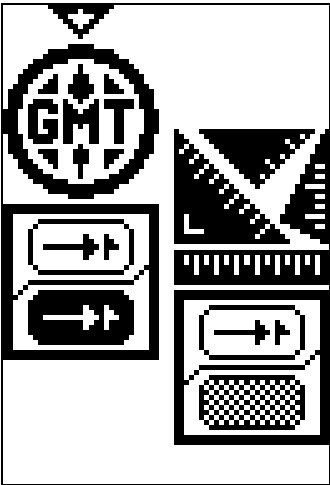|	icon	Explanation
		Set Home's coordinates. The indication ⚑ will be ON when the destination's coordinates are set.
		Set Building's coordinates. The indication ⚑ will be ON when the destination's coordinates are set.
		Set Car's coordinates. The indication ⚑ will be ON when the destination's coordinates are set.
		Set Travel's coordinates. The indication ⚑ will be ON when the destination's coordinates are set.
		Set My Favorite's coordinates. The indication ⚑ will be ON when the destination's coordinates are set.

Setting Destination's Longitude

	1. The upper left corner is the selected destination. The number is the setting longitude (East or West). An arrow will be indicated to the number on the initial screen. 2. **Press** the Selection/Setting button to select the number. **Hold** the Selection/Setting button to enter the selected value and move to the next digit for setting. 3. The maximum setting is 180 ° 00 '00 . 00 "

Setting Destination's Latitude

	1. The upper left corner is the selected destination. The number is the setting longitude (North or South). An arrow will be indicated to the number on the initial screen. 2. **Press** the Selection/Setting button to select the number. **Hold** the Selection/Setting button to enter the selected value and move to the next digit for setting. 3. The maximum setting is 90 ° 00 '00 . 00 "

3-2-2 Function Setting

	Icon	Explanation
		Set Your Time Zone
		Set the unit for displayed distance, KM, mile, and nm.
		Set illumination timeout
		Set preferred automatic sleeping time for power-saving

Setting Time Zone

	Explanation
	1. You could set your time zone in this screen. The value on the lower screen represents the GMT time.
	2. **Press** the Selection/Setting button to select the time zone.
	3. **Hold** the Selection/Setting button to save the time zone.
	4. **Hold** the Power button to return to the last screen.

Setting Unit of Displayed Distance

	Explanation
	1. You could select the unit of displayed distance in this screen. The default setting is km.
	2. **Press** the Selection/Setting button to select the unit.
	3. **Hold** the Selection/Setting button to save your option.
	4. **Hold** the Power button to return to the last screen.
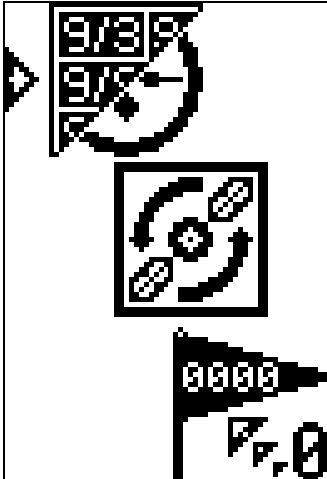
Setting The Illumination Timeout

	Explanation
05sec	1. The value in the lower portion of the image to the left is the illumination time-out time. The screen will be on for the selected amount of time after you press the power/backlight button. 2. **Press** the Selection/Setting button to select the illumination timeout. 3. **Hold** the Selection/Setting button to save the illumination timeout 4. **Hold** the Power button to return to the last screen.
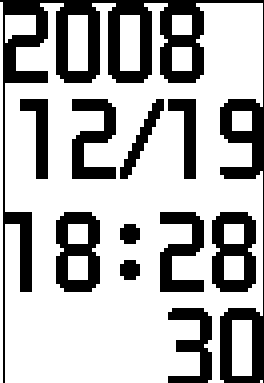
Set Idle-timeout Time for Going to Sleep Mode
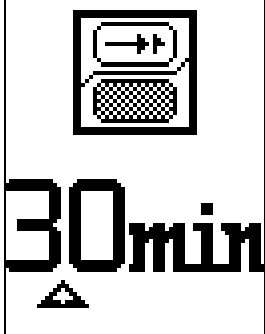
	Explanation
30min	1. Set idle-timeout time for going to sleep mode in this screen. The value in the lower screen represents the idle-timeout time. 2. **Press** the Selection/Setting button to select idle-timeout-time. 3. **Hold** the Selection/Setting button to save idle-timeout-time. 4. **Hold** the Power button to return to the last screen.
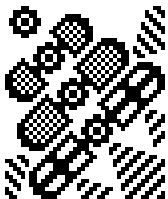
3-2-3 Setting Data

	Icon	Explanation
		Displays the present time of the set time zone.
		Forces the GD-101 to do a cold start_
		Deletes the setting coordinate of a destination in the GD-101
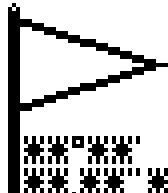
Showing Date and Time

	Explanation
2008 12/19 18:28 30	1. Displayed date and time is from satellite data. It is not user-defined. 2. **Press** the Power button to return to the last screen. 3. **Hold** the Selection/Setting button to go to the main screen.
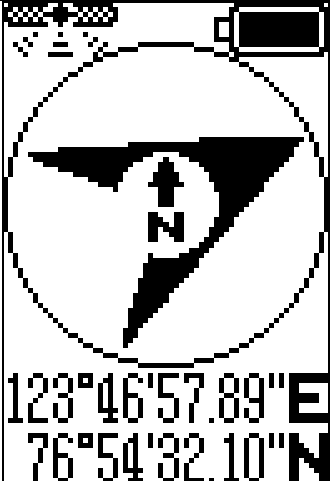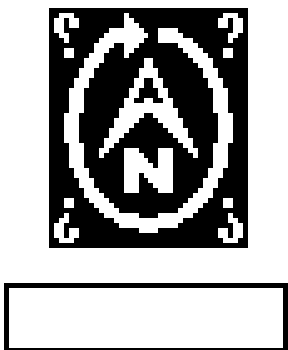
Cold Start

		Explanation
		1. This screen shows the GD-101 is performing a GPS a Cold Start 2. The GD-101 will return to the E-Compass screen after 1 second.
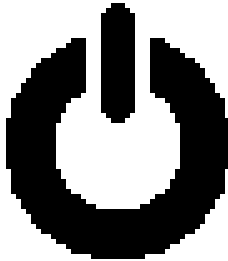
Deleting Coordinates of Destination Screen

	Explanation
	1. This screen shows the GD-101 is deleting the coordinates of the destination. 2. It will return to the E-Compass screen after 1 second.

3-3 Adjusting E-Compass

	Explanation
123°46'57.89"E 76°54'32.10"N	1. The GD-101 will display magnetic north after adjusting the E-Compass. 2. The GD-101 will show the coordinates after getting a GPS fix.
	Adjusting the Electronic Compass 1. You can adjust the electronic compass in this screen. 2. To adjust the magnetic North settings **Hold** the Selection/Setting button and rotate the device in a circular motion 1-2 times. 3. We highly suggest you perform the adjustment outdoors to avoid interference with magnetic anomalies. 4. The GD-101 will automatically return to the E-Compass screen once the adjustments have been completed.

3-4 Turning Off The GD-101

		Explanation
		1. To turn off the GD-101 press and hold the power button till the GD-101 turns off. 2. The GD-101 will turn off 2 seconds after seeing the image to the left.

Chapter 4: Troubleshooting

When GD-101 can not be turned on or does not work properly,

Please check if the battery is installed correctly.

ⓘ	Why does the GD-101 require more time to get a GPS fix while in motion powering the GD-101 on? In order to shorten the "fix time" please keep the GD-101 stationary while powering it on.
ⓘ	Keep GD-101 away from excessive moisture and extreme temperatures. Do not leave it in the closed vehicles or put it under direct sunlight for extended periods of time. Excessive moisture and extreme temperatures may damage the GD-101.
ⓘ	If the date and time is not correct, please select the local time zone in the time zone setting. Ie PST GMT -8 / Taiwan GMT +8
ⓘ	Do not place the GD-101 near electronic appliances or high-powered magnets. Electronic appliances/ devices may cause the GD-101 to give a wrong heading.
ⓘ	If the heading being given is inaccurate, this can be corrected by going to the adjustments menu and select the E-Compass option .

World Time Zone Table

Time Code	Description	Region	Time Zone
ACDT	Australian Central Daylight Time	Australia	+10:30
ACST	Australian Central Standard Time	Australia	+ 9:30
ADT	Atlantic Daylight Time	North America	- 3:00
AEDT	Australian Eastern Daylight Time	Australia	+ 11:00
AEST	Australian Eastern Standard Time	Australia	+ 10:00
AKDT	Alaska Daylight Time	North America	- 8:00
AKST	Alaska Standard Time	North America	- 9:00
AST	Atlantic Standard Time	North America	- 4:00
AWDT	Australian Western Daylight Time	Australia	+ 9:00
AWST	Australian Western Standard Time	Australia	+ 8:00
BST	British Summer Time	Europe	+ 1:00
CDT	Central Daylight Time	Australia	+10:30
CDT	Central Daylight Time	North America	- 5:00
CEDT	Central European Daylight Time	Europe	+ 2:00
CEST	Central European Summer Time	Europe	+ 2:00
CET	Central European Time	Europe	+ 1:00
CST	Central Summer Time	Australia	+ 10:30
CST	Central Standard Time	Australia	+ 9:30
CST	Central Standard Time	North America	- 6:00
CXT	Christmas Island Time	Australia	+ 7:00
EDT	Eastern Daylight Time	Australia	+ 11:00
EDT	Eastern Daylight Time	North America	- 4:00
EEDT	Eastern European Daylight Time	Europe	+ 3:00
EEST	Eastern European Summer Time	Europe	+ 3:00
EET	Eastern European Time	Europe	+ 2:00
EST	Eastern Summer Time	Australia	+ 11:00
EST	Eastern Standard Time	Australia	+ 10:00
EST	Eastern Standard Time	North America	- 5:00
GMT	Greenwich Mean Time	Europe	0:00
HAA	Heure Avancée de l'Atlantique	North America	- 3:00
HAC	Heure Avancée du Centre	North America	- 5:00
HADT	Hawaii-Aleutian Daylight Time	North America	- 9:00
HAE	Heure Avancée de l'Est	North America	- 4:00
HAP	Heure Avancée du Pacifique	North America	- 7:00
HAR	Heure Avancée des Rocheuses	North America	- 6:00

HAST	Hawaii-Aleutian Standard Time	North America	- 10:00
HAT	Heure Avancée de Terre-Neuve	North America	-2:30
HAY	Heure Avancée du Yukon	North America	- 8:00
HNA	Heure Normale de l'Atlantique	North America	- 4:00
HNC	Heure Normale du Centre	North America	- 6:00
HNE	Heure Normale de l'Est	North America	- 5:00
HNP	Heure Normale du Pacifique	North America	- 8:00
HNR	Heure Normale des Rocheuses	North America	- 7:00
HNT	Heure Normale de Terre-Neuve	North America	- 3:30
HNY	Heure Normale du Yukon	North America	- 9:00
IST	Irish Summer Time	Europe	+ 1:00
MDT	Mountain Daylight Time	North America	- 6:00
MESZ	Mitteleuroäische Sommerzeit	Europe	+ 2:00
MEZ	Mitteleuropäische Zeit	Europe	+ 1:00
MSD	Moscow Daylight Time	Europe	+ 4:00
MSK	Moscow Standard Time	Europe	+ 3:00
MST	Mountain Standard Time	North America	- 7:00
NDT	Newfoundland Daylight Time	North America	- 2:30
NFT	Norfolk (Island) Time	Australia	+ 11:30
NST	Newfoundland Standard Time	North America	- 3:30
PDT	Pacific Daylight Time	North America	- 7:00
PST	Pacific Standard Time	North America	- 8:00
UTC	Coordinated Universal Time	Europe	0:00
WDT	Western Daylight Time	Australia	+ 9:00
WEDT	Western European Daylight Time	Europe	+ 1:00
WEST	Western European Summer Time	Europe	+ 1:00
WET	Western European Time	Europe	0:00
WST	Western Summer Time	Australia	+ 9:00
WST	Western Standard Time	Australia	+ 8:00

FCC Notices

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure requirements:

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.